

Figure 1

SEQUENCE LISTING

5 <110> WARNER-LAMBERT

<120> Matrix metalloproteinase inhibitors

10 <130> A0000434

<140>

<141>

<160> 1

15 <170> PatentIn Ver. 2.1

<210> 1

<211> 471

20 <212> PRT

<213> Homo sapiens

<400> 1

25 Met His Pro Gly Val Leu Ala Ala Phe Leu Phe Leu Ser Trp Thr His
1 5 10 15

Cys Arg Ala Leu Pro Leu Pro Ser Gly Gly Asp Glu Asp Asp Leu Ser
20 25 30

30 Glu Glu Asp Leu Gln Phe Ala Glu Arg Tyr Leu Arg Ser Tyr Tyr His
35 40 45

Pro Thr Asn Leu Ala Gly Ile Leu Lys Glu Asn Ala Ala Ser Ser Met
50 55 60

35 Thr Glu Arg Leu Arg Glu Met Gln Ser Phe Phe Gly Leu Glu Val Thr
65 70 75 80

Gly Lys Leu Asp Asp Asn Thr Leu Asp Val Met Lys Lys Pro Arg Cys
40 85 90 95

Gly Val Pro Asp Val Gly Glu Tyr Asn Val Phe Pro Arg Thr Leu Lys
100 105 110

45 Trp Ser Lys Met Asn Leu Thr Tyr Arg Ile Val Asn Tyr Thr Pro Asp
115 120 125

Met Thr His Ser Glu Val Glu Lys Ala Phe Lys Lys Ala Phe Lys Val
130 135 140

50 Trp Ser Asp Val Thr Pro Leu Asn Phe Thr Arg Leu His Asp Gly Ile
145 150 155 160

Ala Asp Ile Met Ile Ser Phe Gly Ile Lys Glu His Gly Asp Phe Tyr
55 165 170 175

Pro Phe Asp Gly Pro Ser Gly Leu Leu Ala His Ala Phe Pro Gly
180 185 190

Pro Asn Tyr Gly Gly Asp Ala His Phe Asp Asp Asp Glu Thr Trp Thr
 195 200 205
 5 Ser Ser Ser Lys Gly Tyr Asn Leu Phe Leu Val Ala Ala His Glu Phe
 210 215 220
 Gly His Ser Leu Gly Leu Asp His Ser Lys Asp Pro Gly Ala Leu Met
 10 225 230 235 240
 Phe Pro Ile Tyr Thr Tyr Thr Gly Lys Ser His Phe Met Leu Pro Asp
 245 250 255
 15 Asp Asp Val Gln Gly Ile Gln Ser Leu Tyr Gly Pro Gly Asp Glu Asp
 260 265 270
 Pro Asn Pro Lys His Pro Lys Thr Pro Asp Lys Cys Asp Pro Ser Leu
 275 280 285
 20 Ser Leu Asp Ala Ile Thr Ser Leu Arg Gly Glu Thr Met Ile Phe Lys
 290 295 300
 Asp Arg Phe Phe Trp Arg Leu His Pro Gln Gln Val Asp Ala Glu Leu
 25 305 310 315 320
 Phe Leu Thr Lys Ser Phe Trp Pro Glu Leu Pro Asn Arg Ile Asp Ala
 325 330 335
 30 Ala Tyr Glu His Pro Ser His Asp Leu Ile Phe Ile Phe Arg Gly Arg
 340 345 350
 Lys Phe Trp Ala Leu Asn Gly Tyr Asp Ile Leu Glu Gly Tyr Pro Lys
 355 360 365
 35 Lys Ile Ser Glu Leu Gly Leu Pro Lys Glu Val Lys Lys Ile Ser Ala
 370 375 380
 Ala Val His Phe Glu Asp Thr Gly Lys Thr Leu Leu Phe Ser Gly Asn
 40 385 390 395 400
 Gln Val Trp Arg Tyr Asp Asp Thr Asn His Ile Met Asp Lys Asp Tyr
 405 410 415
 45 Pro Arg Leu Ile Glu Glu Asp Phe Pro Gly Ile Gly Asp Lys Val Asp
 420 425 430
 Ala Val Tyr Glu Lys Asn Gly Tyr Ile Tyr Phe Phe Asn Gly Pro Ile
 435 440 445
 50 Gln Phe Glu Tyr Ser Ile Trp Ser Asn Arg Ile Val Arg Val Met Pro
 450 455 460
 Ala Asn Ser Ile Leu Trp Cys
 55 465 470

Figure 2

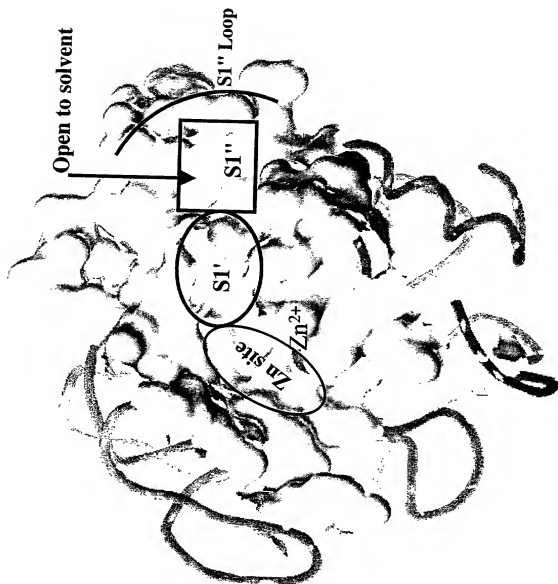


Figure 3: Synthesis example 1 binding mode

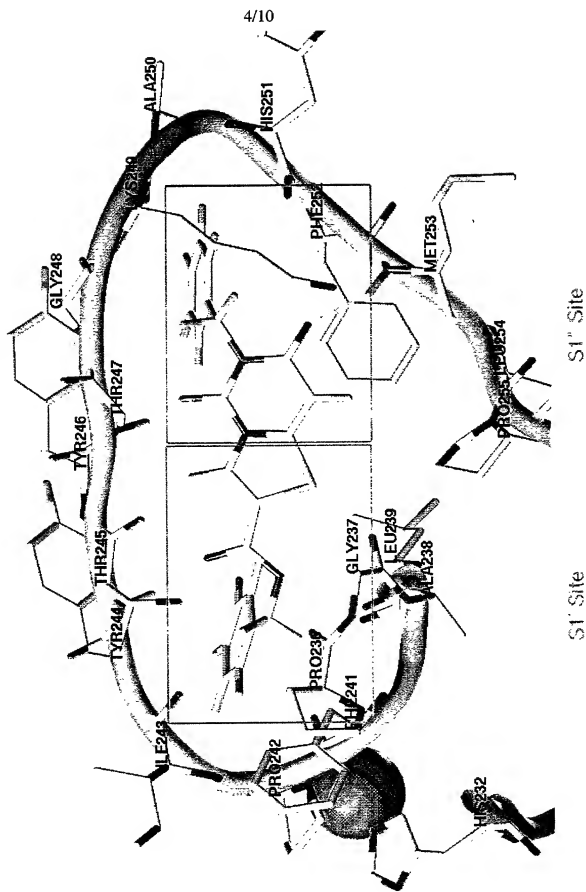


Figure 4: Synthesis example 1 binding mode

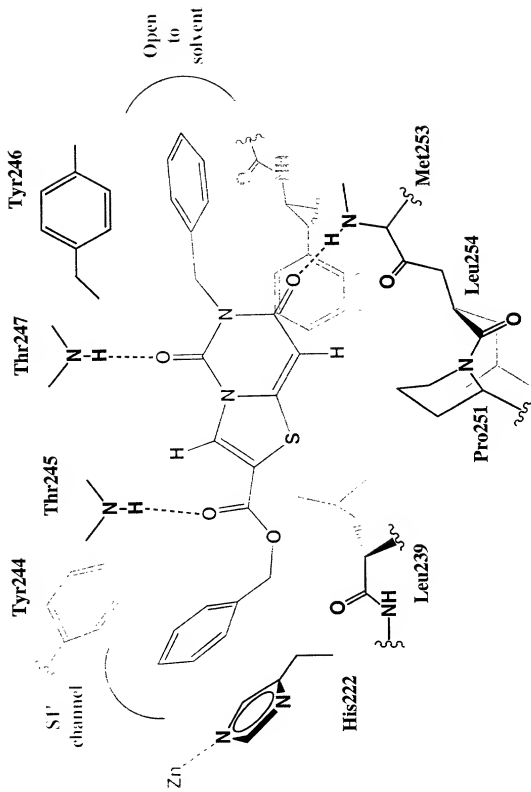


Figure 5: Synthesis example 10 binding mode

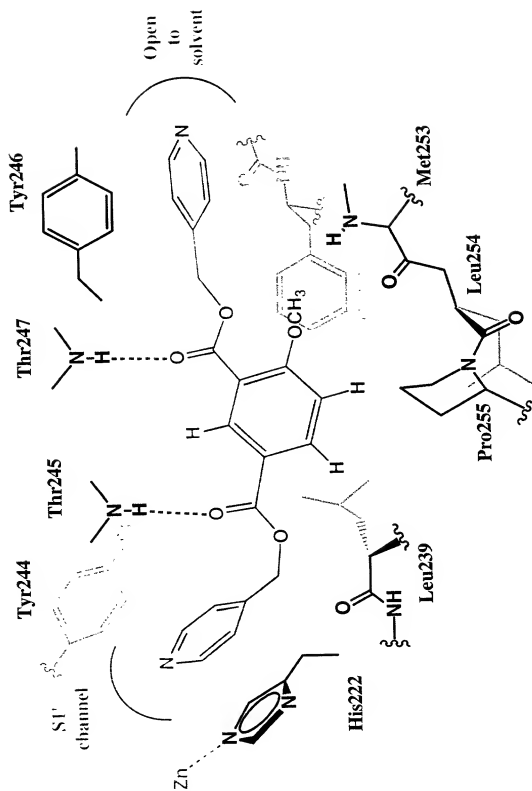


Figure 6: fused Bicyclic Pyrimidones-binding mode

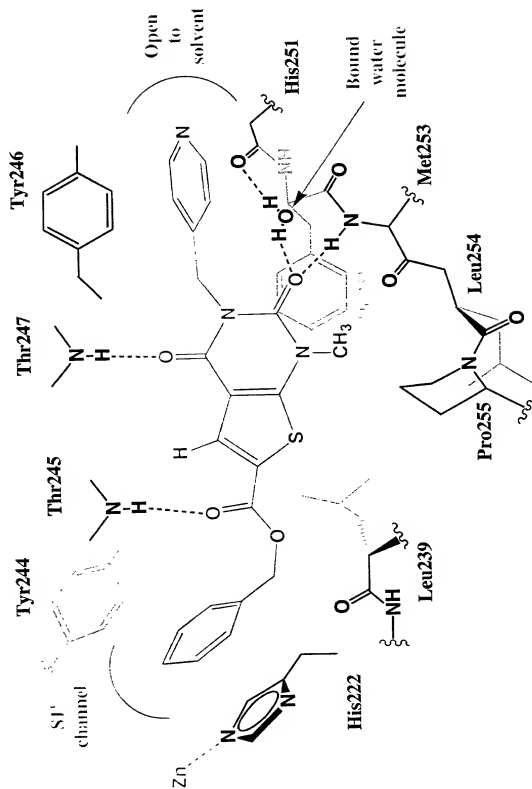


Figure 7: Synthesis example 39 binding mode

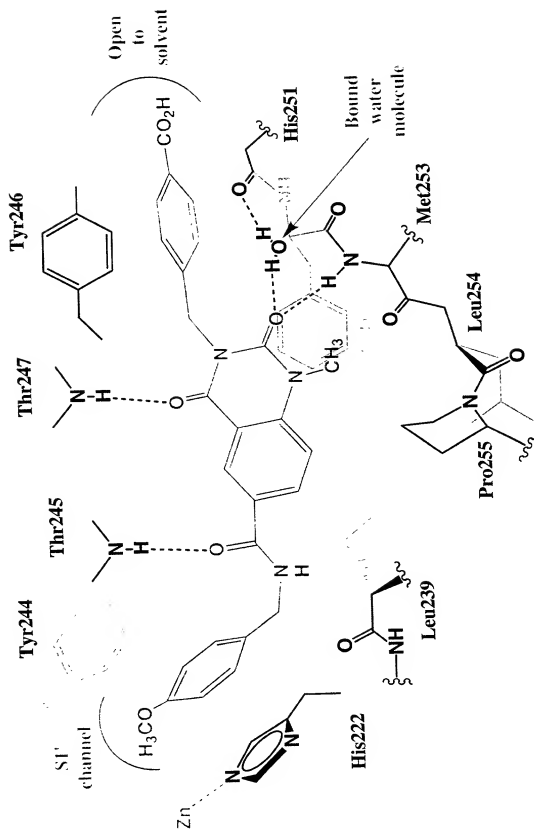


Figure 8: Synthesis example 57 binding mode

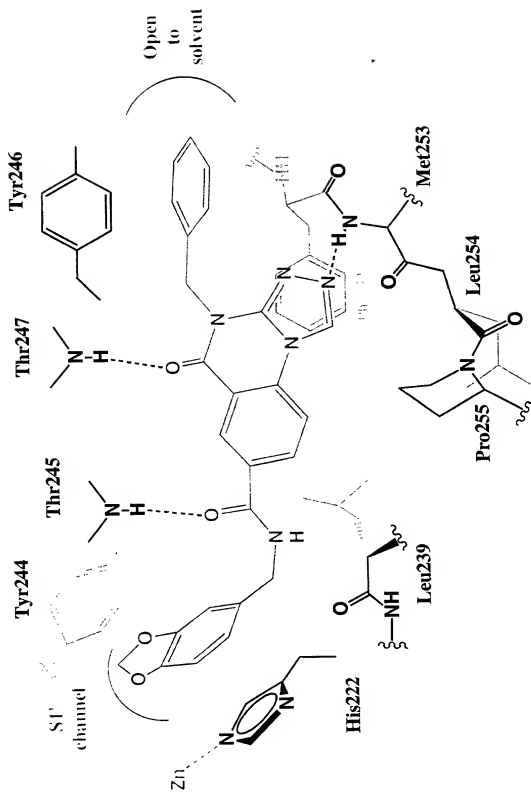


Figure 9 : Coordinates in the space of the hydrophobic groups and hydrogen bond acceptors of the pharmacophore

